ALLAN W. H. ...

Pre-Vema 7

Plankton Analysis

PLANKTON ANALYSIS

Cruise KM
Station 1
Date 7/16/52
Net in 1025 FST
Net out
Position

Equipment
Depth tow
Type tow
M^3H_2O filtered
Displacementvol.

CHAETOGNATHA

Species	#C.	%S.	#/10^3M^3
E. ham.			
K. subt			
K. pac.			
S. calif			
S. decip			
S. eleg.			
S. enfl.			
S. hex.			
S. lyra			
S. min.			
S. serrat ad	1	100	
S. serrat			
S. ten.			
S. ten.			
P. draco			
Sag. mat	6	100	
Total chaets			
# spp.			

TOTAL ZOOPLANKTON

Group	#C	%S	#/10^3M^3	Rank
Ceratium				
Diatoms				
Dinoflag				
Noctiluca				
Amphipods				
Atlantids				
Cladocera				
Copepods				
Chaetogn.				
Dec. larv				
Doliolids				
Euphaus.				
Euph. egg				
Fish eggs				
Fish larv				
Forams				
Larvacns				
Medusae				
Ostracods				
Polychts				
Pter. thc				
Pter. gym				
Rads				
Salps		dominant		
Siphonoph				
Squid				

PLANKTON ANALYSIS

Cruise KM
Station 2
Date 7/16/52
Net in 1805 EST
Net out
Position

Equipment
Depth tow
Type tow
M^3H_2O filtered
Displacement vol.

CHAETOGNATHA

Species	#C.	%S.	#/10^3M^3
E. ham.			
K. subt			
K. pac.			
S. calif			
S. decip			
S. eleg.			
S. enfl.			
S. hex.	1	100	
S. lyra			
S. min.			
S. serrat atl	1	100	
S. serrat			
S. ten.			
S. ten.			
P. draco			
Total chaets			
# spp.			

TOTAL ZOOPLANKTON

Group	#C	%S	#/10^3M^3	Rank
Ceratium				
Diatoms				
Dinoflag				
Noctiluca				
Amphipods	1	100		
Atlantids				
Cladocera				
Copepods				
Chaetogn.				
Dec. larv				
Doliolids				
Euphaus.	1	100		
Euph. egg				
Fish eggs				
Fish larv	1	100		
Forams				
Larvacns				
Medusae				
Ostracods				
Polychts				
Pter. thc				
Pter. gym				
Rads				
Salps	dominant abundant			
Siphonoph				
Squid				

PLANKTON ANALYSIS

Cruise 4 M
Station 3
Date 7/17/52
Net in ~~1135 EST~~
Net out
Position

Equipment
Depth tow
Type tow
$M^3 H_2O$ filtered
Displacement vol.

CHAETOGNATHA

Species	#C.	%S.	#/$10^3 M^3$
E. ham.			
K. subt			
K. pac.			
S. calif			
S. decip			
S. eleg.			
S. enfl.			
S. hex.			
S. lyra			
S. min.			
S. serrat			
S. serrat			
S. ten.			
S. ten.			
P. draco			
~~lag emat~~	1		
Total chaets			
# spp.			

TOTAL ZOOPLANKTON

Group	#C	%S	#/$10^3 M^3$	Rank
Ceratium				
Diatoms				
Dinoflag				
Noctiluca				
Amphipods				
Atlantids				
Cladocera				
Copepods				
Chaetogn.				
Dec. larv				
Doliolids				
Euphaus.	5	100		
Euph. egg				
Fish eggs				
Fish larv				
Forams				
Larvacns				
Medusae				
Ostracods				
Polychts				
Pter. thc				
Pter. gym				
Rads				
Salps		abundant		
Siphonoph				
Squid				

PLANKTON ANALYSIS

Cruise V. M
Station 4
Date 7/17/52
Net in 1250 EST
Net out
Position

Equipment
Depth tow
Type tow
M^3H_2O filtered
Displacementvol.

CHAETOGNATHA

Species	#C.	%S.	#/10^3M^3
E. ham.			
K. subt			
K. pac.	1	100	
S. calif			
S. decip			
S. eleg.			
S. enfl.			
S. hex.			
S. lyra			
S. min.	2	100	
S. serrat atl	4	100	
S. serrat			
S. ten.			
S. ten.			
P. draco			
Paynist	9	100	
Total chaets			
# spp.			

TOTAL ZOOPLANKTON

Group	#C	%S	#/10^3M^3	Rank
Ceratium				
Diatoms				
Dinoflag				
Noctiluca				
Amphipods				
Atlantids				
Cladocera				
Copepods	3	100		
Chaetogn.				
Dec. larv				
Doliolids				
Euphaus.	3	100		
Euph. egg				
Fish eggs				
Fish larv				
Forams				
Larvacns				
Medusae				
Ostracods	1	100		
Polychts				
Pter. thc				
Pter. gym				
Rads				
Salps		abundant		
Siphonoph				
Squid				

PLANKTON ANALYSIS

Cruise KM
Station 5
Date 7/17/52
Net in 2300 EST
Net out
Position

Equipment
Depth tow
Type tow
$M^3 H_2O$ filtered
Displacement vol. 3X pres. samples
color yellow, preserving-white

CHAETOGNATHA

Species	#C.	%S.	#/$10^3 M^3$
E. ham.			
K. subt			
K. pac.			
S. calif			
S. decip			
S. eleg.			
S. enfl.			
S. hex.			
S. lyra			
S. min.			
S. serrat atl	3	20	
S. serrat			
S. ten.			
S. ten.			
P. draco			
Immat hg.	22	20	
Total chaets			
# spp.			

Small size III.

TOTAL ZOOPLANKTON

Group	#C	%S	#/$10^3 M^3$	Rank
Ceratium				
Diatoms				
Dinoflag				
Noctiluca				
Amphipods	2	20		
Atlantids				
Cladocera				
Copepods cal	15	1		
Chaetogn.				
Dec. larv				
Doliolids				
Euphaus.	9	50		
Euph. egg				
Fish eggs				
Fish larv				
Forams				
Larvacns				
Medusae	3	50		
Ostracods	7	50		
Polychts				
Pter. thc				
Pter. gym	5	50		
Rads				
Salps				
Siphonoph				
Squid				
miscellan	16	4 20 2 1/2		
Clamphores	3	50		

PLANKTON ANALYSIS

Cruise KM
Station 6
Date 7/18/52
Net in 1405 EST
Net out
Position

Equipment
Depth tow
Type tow
$M^3 H_2O$ filtered
Displacement vol. ½ ml of 5
white sample

CHAETOGNATHA

Species	#C.	%S.	#/$10^3 M^3$
E. ham.			
K. subt			
K. pac.			
S. calif			
S. decip			
S. eleg.			
S. enfl.			
S. hex.			
S. lyra			
S. min.			
S. serrat atl	2	100	
S. serrat			
S. ten.			
S. ten.			
P. draco			
Total chaets			
# spp.			

TOTAL ZOOPLANKTON

Group	#C	%S	#/$10^3 M^3$	Rank
Ceratium				
Diatoms				
Dinoflag				
Noctiluca				
Amphipods	7	100		
Atlantids				
Cladocera				
Copepods	26	100		
Chaetogn.	7	100		
Dec. larv				
Doliolids				
Euphaus.	10	100		
Euph. egg				
Fish eggs				
Fish larv				
Forams				
Larvacns				
Medusae	13	100		
Ostracods				
Polychts				
Pter. thc				
Pter. gym				
Rads				
Salps				
Siphonoph				
Squid				
microdants	abundant - not counted			

PLANKTON ANALYSIS

Cruise HM
Station 7
Date 7/19/52
Net in 1145 EST
Net out
Position

Equipment
Depth tow
Type tow
$M^3 H_2O$ filtered
Displacement vol.

CHAETOGNATHA

Species	#C.	%S.	#/$10^3 M^3$
E. ham.	10	100	
K. subt			
K. pac.			
S. calif			
S. decip			
S. eleg.			
S. enfl.			
S. hex.			
S. lyra			
S. min.			
S. serrat			
S. serrat			
S. ten.			
S. ten.			
P. draco			
♂ mask	2	100	
Total chaets			
# spp.			

both ♂ mask dent 55 mm lng.

TOTAL ZOOPLANKTON

Group	#C	%S	#/$10^3 M^3$	Rank
Ceratium				
Diatoms				
Dinoflag				
Noctiluca				
Amphipods				
Atlantids				
Cladocera	25	20		
Copepods				
Chaetogn.				
Dec. larv				
Doliolids				
Euphaus.	1	20		
Euph. egg				
Fish eggs				
Fish larv				
Forams				
Larvacns				
Medusae				
Ostracods	1	20		
Polychts				
Pter. thc	2	20		
Pter. gym				
Rads	1	20		
Salps				
Siphonoph				
Squid				

Plankton as Peruchi? or Lucia?

PLANKTON ANALYSIS

Cruise U.M.
Station 8
Date 7/19/52
Net in 1805 EST
Net out
Position

Equipment
Depth tow
Type tow
M^3H_2O filtered
Displacement vol.

CHAETOGNATHA

Species	#C.	%S.	#/10^3M^3
E. ham.	1	100	
K. subt			
K. pac.			
S. calif			
S. decip			
S. eleg.			
S. enfl.			
S. hex.			
S. lyra			
S. min.			
S. serrat			
S. serrat			
S. ten.			
S. ten.			
P. draco			
Total chaets			
# spp.			

TOTAL ZOOPLANKTON

Group	#C	%S	#/10^3M^3	Rank
Ceratium				
Diatoms				
Dinoflag				
Noctiluca				
Amphipods				
Atlantids				
Cladocera				
Copepods	35	100		
Chaetogn.				
Dec. larv				
Doliolids				
Euphaus.	2			
Euph. egg				
Fish eggs				
Fish larv				
Forams				
Larvacns				
Medusae	10			
Ostracods	3			
Polychts				
Pter. thc	1			
Pter. gym				
Rads	6	100		
Salps				
Siphonoph				
Squid				

PLANKTON ANALYSIS

Cruise U.M.
Station 9
Date 7/19/52
Net in 2045 EST
Net out
Position

Equipment
Depth tow
Type tow
$M^3 H_2O$ filtered
Displacement vol.

Sample not preserved soon enough
do not use

CHAETOGNATHA

Species	#C.	%S.	#/$10^3 M^3$
E. ham.			
K. subt			
K. pac.			
S. calif			
S. decip			
S. eleg.			
S. enfl.			
S. hex.			
S. lyra			
S. min.			
S. serrat			
S. serrat			
S. ten.			
S. ten.			
P. draco			
Total chaets			
# spp.			

TOTAL ZOOPLANKTON

Group	#C	%S	#/$10^3 M^3$	Rank
Ceratium				
Diatoms				
Dinoflag				
Noctiluca				
Amphipods	1	100		
Atlantids				
Cladocera				
Copepods	22			
Chaetogn.				
Dec. larv				
Doliolids				
Euphaus.	2			
Euph. egg				
Fish eggs				
Fish larv	1			
Forams				
Larvacns				
Medusae				
Ostracods				
Polychts				
Pter. thc	4	100		
Pter. gym				
Rads				
Salps				
Siphonoph				
Squid				

PLANKTON ANALYSIS

Cruise UM
Station 10
Date 7/21/52
Net in ~~1205 EST~~
Net out
Position

Equipment
Depth tow
Type tow
$M^3 H_2O$ filtered
Displacement vol.

CHAETOGNATHA

Species	#C.	%S.	#/$10^3 M^3$
E. ham.	7	100	
K. subt			
K. pac.			
S. calif			
S. decip			
S. eleg.			
S. enfl.			
S. hex.			
S. lyra			
S. min.			
S. serrat			
S. serrat			
S. ten.			
S. ten.			
P. draco			
Total chaets			
# spp.			

TOTAL ZOOPLANKTON

Group	#C	%S	#/$10^3 M^3$	Rank
Ceratium				
Diatoms				
Dinoflag				
Noctiluca				
Amphipods	1	100		
Atlantids				
Cladocera				
Copepods	24	10		
Chaetogn.				
Dec. larv				
Doliolids				
Euphaus.				
Euph. egg				
Fish eggs				
Fish larv				
Forams				
Larvacns				
Medusae	1	100		
Ostracods	27	100		
Polychts	1	100		Tomopt.
Pter. thc	3	100		
Pter. gym				
Rads				
Salps				
Siphonoph				
Squid				

PLANKTON ANALYSIS

Cruise 4M
Station 11
Date 7/21/53
Net in 1500 EST
Net out
Position

Equipment
Depth tow
Type tow
M^3H_2O filtered
Displacementvol.

CHAETOGNATHA

Species	#C.	%S.	#/10^3M^3
E. ham.			
K. subt			
K. pac.			
S. calif			
S. decip			
S. eleg.			
S. enfl.			
S. hex.			
S. lyra			
S. min.			
S. serrat			
S. serrat			
S. ten.			
S. ten.			
P. draco			
last day	9	100	
Total chaets	9	100	
# spp.			

TOTAL ZOOPLANKTON

Group	#C	%S	#/10^3M^3	Rank
Ceratium				
Diatoms				
Dinoflag				
Noctiluca				
Amphipods				
Atlantids				
Cladocera				
Copepods	mucus & debris, not calc.			
Chaetogn.				
Dec. larv				
Doliolids				
Euphaus.	3	100		
Euph. egg				
Fish eggs				
Fish larv				
Forams				
Larvacns				
Medusae				
Ostracods				
Polychts				
Pter. thc				
Pter. gym				
Rads				
Salps				
Siphonoph				
Squid				

PLANKTON ANALYSIS

Cruise KM
Station 13
Date 2/23/52
Net in 1410 EST
Net out
Position

Equipment
Depth tow
Type tow
M^3H_2O filtered
Displacementvol.

CHAETOGNATHA

Species	#C.	%S.	#/10^3M^3
E. ham.			
K. subt			
K. pac.			
S. calif			
S. decip			
S. eleg.			
S. enfl. /	1	100	
S. hex. //	2	100	
S. lyra			
S. min. //	2	100	
S. serrat			
S. serrat			
S. ten.			
S. ten.			
P. draco			
Unident Juveniles	9	50	
Total chaets			
# spp.			

TOTAL ZOOPLANKTON

Group	#C	%S	#/10^3M^3	Rank
Ceratium	present			
Diatoms /	1	100		
Dinoflag				
Noctiluca				
Amphipods	4	50		
Atlantids // = 2				
Cladocera				
Copepods //	30	10		
Chaetogn.	9	50		
Dec. larv				
Doliolids	1	50		
Euphaus.	3	50		
Euph. egg				
Fish eggs				
Fish larv	1	100		
Forams	2	50		
Larvacns //	2	50		
Medusae //	2	50		
Ostracods	3	10		
Polychts /	1	50		
Pter. thc	4	10		
Pter. gym				
Rads				
Salps				
Siphonoph	2	50		
Squid	1	100		
Brachyura //	4	50		
Unident	6	10		

Forams are rubbed
Ostracods in Copidiscus

PLANKTON ANALYSIS

Cruise 4M
Station 6
Date 7/25/52
Net in 1835 EST
Net out
Position

Equipment
Depth tow
Type tow
$M^3 H_2O$ filtered
Displacement vol.

CHAETOGNATHA

Species	#C.	%S.	#/$10^3 M^3$
E. ham.			
K. subt			
K. pac.			
S. calif	1	100	
S. decip			
S. eleg.			
S. enfl.			
S. hex.			
S. lyra			
S. min.			
S. serrat	4	100	
S. serrat			
S. ten.			
S. ten.			
P. draco			
Ornat larv	5	10	
Total chaets			
# spp.			

TOTAL ZOOPLANKTON

Group	#C	%S	#/$10^3 M^3$	Rank
Ceratium				
Diatoms cont		100		
Dinoflag				
Noctiluca				
Amphipods				
Atlantids	3	10		
Cladocera				
Copepods	36	10		
Chaetogn.	5	10		
Dec. larv				
Doliolids				
Euphaus.	5	20		
Euph. egg				
Fish eggs				
Fish larv	4	50		
Forams				
Larvacns				
Medusae				
Ostracods	3	50		
Polychts				
Pter. thc	5	5		
Pter. gym				
Rads				
Salps	1	50		
Siphonoph	2	50		
Squid				
Ctenophore	17	10		
Brachiolaria	1	100		

Pter gym look like very small thecosomata?
Styliola subula?
Styliola subula!
Cuvierina columnella! 31 00 20

PLANKTON ANALYSIS

Cruise KM
Station 17
Date 7/25/52
Net in 1900 EST
Net out
Position

Equipment
Depth tow
Type tow
M^3H_2O filtered
Displacementvol.

CHAETOGNATHA

Species	#C.	%S.	#/10^3M^3
E. ham.			
K. subt			
K. pac.			
S. calif I	1	100	
S. decip			
S. eleg.			
S. enfl.			
S. hex. II	2	100	
S. lyra			
S. min. II	2	100	
S. serrat			
S. serrat			
S. ten.			
S. ten.			
P. draco			
Immat Lg.	13	20	
Total chaets			
# spp.			

TOTAL ZOOPLANKTON

Group	#C	%S	#/10^3M^3	Rank
Ceratium	present			
Diatoms				
Dinoflag				
Noctiluca	present			
Amphipods				
Atlantids III	4	100		
Cladocera				
Copepods I	13	20		
Chaetogn.	13	20		
Dec. larv				
Doliolids				
Euphaus.				
Euph. egg				
Fish eggs				
Fish larv III	4	20		
Forams				
Larvacns II	2	20		
Medusae				
Ostracods	4	20		
Polychts				
Pter. thc III	3	50		
Pter. gym				
Rads				
Salps				
Siphonoph II=2		100		
Squid				
bract.	1	20		
gastrod	1	100		
Limacina	2	20		
bryozoan	1	100		

PLANKTON ANALYSIS

Cruise KM
Station 18
Date 7/26/52
Net in 2140 EST
Net out
Position

Equipment
Depth tow
Type tow
$M^3 H_2O$ filtered
Displacementvol.

CHAETOGNATHA

Species	#C.	%S.	#/$10^3 M^3$
E. ham.			
K. subt			
K. pac.			
S. calif			
S. decip			
S. eleg.			
S. enfl.			
S. hex.			
S. lyra			
S. min. IIII	4	100	
S. serrat			
S. serrat			
S. ten.			
S. ten.			
P. draco			
Count by	12	20	
Total chaets			
# spp.			

TOTAL ZOOPLANKTON

Group	#C	%S	#/$10^3 M^3$	Rank
Ceratium				
Diatoms II	3	20		
Dinoflag				
Noctiluca II	10	3		
Amphipods III	3	100		
Atlantids II=2		100		
Cladocera				
Copepods	30	4		
Chaetogn.	12	20		
Dec. larv				
Doliolids				
Euphaus III	3	100		
Euph. egg				
Fish eggs				
Fish larv II	2	20		
Forams				
Larvacns III	3	50		
Medusae				
Ostracods	8	20		
Polychts II=2		50		
Pter. thc IIII	4	20		
Pter. gym				
Rads				
Salps				
Siphonoph III	3	20		
Squid				
gastropods I	1	50		
brachiolaria III	3	100		
small shrimp 4		100		

PLANKTON ANALYSIS

Cruise KM
Station 22
Date 7/28/52
Net in HOOEST
Net out
Position

Equipment
Depth tow
Type tow
$M^3 H_2O$ filtered
Displacementvol.

CHAETOGNATHA

Species	#C.	%S.	#/$10^3 M^3$
E. ham.			
K. subt			
K. pac.			
S. calif			
S. decip			
S. eleg.			
S. enfl.			
S. hex.			
S. lyra			
S. min.			
S. serrat			
S. serrat			
S. ten.			
S. ten.			
P. draco			
Total chaets			
# spp.			

TOTAL ZOOPLANKTON

Group	#C	%S	#/$10^3 M^3$	Rank
Ceratium				
Diatoms				
Dinoflag				
Noctiluca				
Amphipods				
Atlantids				
Cladocera				
Copepods	1	100		
Chaetogn.				
Dec. larv				
Doliolids				
Euphaus.				
Euph. egg				
Fish eggs				
Fish larv				
Forams				
Larvacns				
Medusae				
Ostracods				
Polychts	1	100		
Pter. thc				
Pter. gym				
Rads				
Salps				
Siphonoph				
Squid				
T. lucae	1	100		

Sample only white pyt. or ?

PLANKTON ANALYSIS

Cruise KM
Station 23
Date 7/28/53
Net in 1400 EST
Net out
Position

Equipment
Depth tow
Type tow
$M^3 H_2O$ filtered
Displacement vol.

CHAETOGNATHA

Species	#C.	%S.	#/$10^3 M^3$
E. ham.			
K. subt			
K. pac.			
S. calif	1?	1	100
S. decip			
S. eleg.			
S. enfl.			
S. hex.			
S. lyra			
S. min.			
S. serrat			
S. serrat			
S. ten.			
S. ten.			
P. draco			
Unsat lag	5	50	
Total chaets			
# spp.			

I calif clad sagitta

TOTAL ZOOPLANKTON

Group	#C	%S	#/$10^3 M^3$	Rank
Ceratium				
Diatoms				
Dinoflag				
Noctiluca				
Amphipods				
Atlantids	1	2	50	
Cladocera				
Copepods	8	8	20	
Chaetogn.	5	5	50	
Dec. larv				
Doliolids				
Euphaus.	3	3	20	
Euph. egg	2	2	50	
Fish eggs	1	1	50	
Fish larv	4	4	20	
Forams				
Larvacns				
Medusae				
Ostracods				
Polychts				
Pter. thc				
Pter. gym	4	4	10	
Rads				
Salps				
Siphonoph				
Squid				
miscl	40	40	1/10 sample	

PLANKTON ANALYSIS

Cruise KM
Station 24
Date 7/28/52
Net in
Net out 1545 EST
Position

Equipment
Depth tow
Type tow
M^3H_2O filtered
Displacementvol.

CHAETOGNATHA

Species	#C.	%S.	#/10^3M^3
E. ham.			
K. subt			
K. pac.			
S. calif			
S. decip			
S. eleg.			
S. enfl.			
S. hex.			
S. lyra			
S. min.			
S. serrat			
S. serrat			
S. ten.			
S. ten.			
P. draco			
Total chaets			
# spp.			

TOTAL ZOOPLANKTON

Group	#C	%S	#/10^3M^3	Rank
Ceratium				
Diatoms				
Dinoflag				
Noctiluca				
Amphipods				
Atlantids				
Cladocera				
Copepods				
Chaetogn.				
Dec. larv				
Doliolids				
Euphaus.				
Euph. egg				
Fish eggs				
Fish larv				
Forams				
Larvacns				
Medusae				
Ostracods				
Polychts				
Pter. thc				
Pter. gym				
Rads				
Salps				
Siphonoph				
Squid				

Sample not counted: not preserved enough + loaded with benthic + planktic forams - bit bottom or contaminated jar.

PLANKTON ANALYSIS

Cruise KM
Station 28
Date 7/30/52
Net in 1120 EST
Net out
Position

Equipment
Depth tow
Type tow
$M^3 H_2O$ filtered
Displacement vol.
about 5 x thermal.

CHAETOGNATHA

Species	#C.	%S.	#/$10^3 M^3$
E. ham.			
K. subt			
K. pac.			
S. calif			
S. decip			
S. eleg.			
S. enfl.			
S. hex.	1	50	
S. lyra			
S. min.	1	2	
S. serrat			
S. serrat II	3	2	
S. ten.			
S. ten.			
P. draco	1	10	
Total chaets			
# spp.			

TOTAL ZOOPLANKTON

Group	#C	%S	#/$10^3 M^3$	Rank
Ceratium				
Diatoms				
Dinoflag				
Noctiluca	1	.25		
Amphipods	1	.25		
Atlantids				
Cladocera				
Copepods	100	.25		
Chaetogn.	25	5		
Dec. larv				
Doliolids				
Euphaus.	1	5		
Euph. egg				
Fish eggs				
Fish larv				
Forams	1	5		
Larvacns				
Medusae				
Ostracods	2	.25		
Polychts				
Pter. thc				
Pter. gym				
Rads				
Salps				
Siphonoph				
Squid				
Thecosom.				
Chaet.	1	5		

Stylocheiron suhmi 1 in 10
Forams are rubra (1-5) + Orbulina 1-25%